

ELECTRICAL CONSTRUCTION & MAINTENANCE



SUCCEED HERE

PROGRAM PURPOSE

Electrical construction and maintenance is a two-year program that provides broad fundamental training in the principles used to install electrical equipment and the mathematics necessary to plan electrical systems. National electric code and theory are taught throughout the program.

The first year provides theory and practice in electrical and electronics basics. Studies include the use of diagnostic test equipment and troubleshooting techniques while performing hands-on laboratory exercises. Areas covered include: AC and DC circuits, semiconductor devices, electronic circuits and digital electronics. The second year begins with an in-depth study of commercial and industrial wiring techniques and lighting design.

Hands-on exercises include conduit bending and installation and lighting and control system installation. Following a thorough study of rotating machinery and power systems analysis, industrial wiring and motor controls are studied. Hands-on exercises include the planning, wiring and testing of motor control circuitry.

Graduates have the opportunity to sit for their Journeyman's license exam right after graduation.

CAREER OPPORTUNITIES

Graduates of this program will find employment opportunities as beginning electricians with:

- electrical contractors
- industrial maintenance operations
- power companies
- electrical industry equipment suppliers
- service shops

After necessary experience and licenses have been obtained, such positions may

managers

be available:

- inspectors
- supervisors
- operators of individual businesses.

An individual with a felony conviction may not be able to obtain licensure in certain professions.

nmcc.edu

APPLICATION PROCEDURE

The following procedures constitute the admissions process:

- 1. Submit an NMCC application along with a \$20 application fee.
- 2. Submit offical high school transcript and/ or HiSET/GED scores (current senior's transcript should include completed ranking period grades).
- 3. Official college transcripts for applicants who have attended other post-secondary schools.
- 4. If SAT scores are not available, placement testing will be required.
- 5. Individual interview required and a campus tour is highly recommended.

Students that graduate with an associate degree can apply 4,000 hours toward their Journeyman electrical license!

Questions contact: admissions@nmcc.edu

Explore our programs by downloading the NMCC mobile app. at any app. store.

SUCCEED HERE

ELECTRICAL CONSTRUCTION & MAINTENANCE

2019-2020 Curriculum

Associate in Applied Science Degree Program

				0-	
<u>First Semester</u>				CR	
COL 103		1	0	1	
♦ ELE 112 ♦ ELS 117		2		3 4	
ENG 111		3		3	
MAT 118			0	<u>4</u>	
IVIAT TTO	Electrical Matri	<u>4</u> 12	6	15	
		12	U	13	
Second Semester					
	Intro. to Digital Systems	2	2	3	
DRR 117	Blueprint Reading for				
	Construction Trades	2	2 3 3	3	
♦ ELS 124		2	3	3	
♦ ELS 125	Motors & Controls	2	3	3	
	Social Science Elective	_3_	0	3 3 3	
		2 3 11	10	15	
Third Seme	ester				
EET 221	Control Systems & PLCs	2	3	3	
♦ ELC 110		2 3	Õ	3	
♦ ELE 210		3	0	3 3	
V LLL 210	& Maintenance I		•	•	
♦ ELE 212		0	9	3	
· · -	& Maintenance I Lab	•		•	
PHY 150		3	2	4	
	, 555	<u>3</u> 11	14	16	
Fourth Sen		_	_	_	
	Technical Communications	3	0	3 3	
♦ ELC 116		3	0	3	
4 EL E 000	for Industry	•	_	•	
♦ ELE 222		3	0	3	
A EL E 222	& Maintenance II	•	•	3	
♦ ELE 223		0	9	3	
	& Maintenance II Lab	2	0	2	
	Humanities Elective Elective	3	0	3	
	Elective	15	9	<u>3</u> 18	
		15	Э		
TOTAL RE	QUIRED			64	

Certificate Program

First Semester		С	L	CR		
♦ ELC 110	National Electrical Code	3	0	3		
♦ ELE 112	Basic Residential Wiring	2	2	3		
♦ ELS 117	Basic Electricity	2	4	4		
MAT 118	Electrical Math	_4_	0	4		
		11	6	14		
Second Semester						
DRR 117	Blueprint Reading for					
	Construction Trades	2	2	3		
♦ ELC 116	National Electrical Code	3	0	3		
A EL O 404	for Industry	•	•	•		
♦ ELS 124	Industrial Electronics	2	3	3		
♦ ELS 125	Motors & Controls	2	3	3		
ENG 111	English Composition	_3_	0	3		
		12	8	15		
TOTAL REQUIRED				29		

♦ Major courses; a minimum grade of "C" or 2.0 required.

NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.

Key: C= Class Hours, L= Lab Hours, CR= Credit Hours

207-768-2785

nmcc.edu